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IN THE CLAIMS:

- 1. (Currently amended) An implantable or insertable medical device adapted to provide a controlled change in mechanical properties and biomechanical compatibility after being implanted or inserted into a patient comprising a biodegradable inner core material and a biodegradable covering material at least partially covering the inner core material; wherein the biodegradable inner core material is selected from a metallic material and a ceramic material, wherein the covering material substantially controls the rate at which the inner core material becomes flexible upon contact with bodily fluids, and wherein after insertion or implantation into a patient, the medical device becomes decreasingly rigid and increasingly biomechanically compatible with body tissue in contact with the device over time.
- 2. (Cancelled)
- (Previously Presented) The medical device of claim 1, wherein the inner core material becomes increasingly flexible upon contact with body fluids.
- 4. (Cancelled)
- (Currently amended) The medical device of elaim 4 claim 1, wherein the covering material is a hydrophobic surface erodable polymer.
- 6. (Previously presented) The medical device of claim 1, wherein the covering material is a polymer.
- 7. (Original) The medical device of claim 6 wherein the polymer is a shape memory biodegradable polymer.

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- 8. (Canceled)
- (Previously Presented) The medical device of claim 1, wherein the inner core material comprises a metallic core.
- (Previously Presented) The medical device of claim 1, wherein the inner core material comprises a ceramic core.
- 11. (Previously Presented) The medical device of claim 1, wherein the inner core material comprises a monofilament core.
- 12. (Previously Presented) The medical device of claim 1, wherein the inner core material comprises a multifilament core.
- 13. (Original) The medical device of claim 12, wherein the multifilament core comprises woven or braided filaments.
- 14. (Previously Presented) The medical device of claim 1, wherein the inner core material comprises a tubular structure.
- 15. (Original) The medical device of claim 14, wherein the tubular structure is micromachined or laser-cut.
- 16. (Previously Presented) The medical device of claim 1, wherein either or both of the inner core material and the covering material contains therein or thereon at least one therapeutic agent.
- 17. (Original) The medical device of claim 1, further comprising one or more additional coating layers.

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- 18. (Original) The medical device of claim 17, wherein any of said additional coating layers contains therein or thereon at least one therapeutic agent.
- 19. (Original) The medical device of claim 1, which is an intraluminal stent.
- 20. (Original) The medical device of claim 19, wherein the intraluminal stent is selected from the group consisting of coronary, biliary, tracheal, gastrointestinal, urethral, ureteral and esophageal stents.
- 21. (Original) The medical device of claim 20, wherein the stent is a self-expandable or balloon-expandable coronary stent.

22-45. (Cancelled)